

# 1,2-Cyclohexanedicarboxylic acid, cyclohex-3-enylmethyl nonyl ester

Inchi:	InChI=1S/C24H40O4/c1-2-3-4-5-6-7-13-18-27-23(25)21-16-11-12-17-22(21)24(26)28-19
InchiKey:	WGHFEGCTVHDRSB-UHFFFAOYSA-N
Formula:	C24H40O4
SMILES:	CCCCCCCCCOC(=O)C1CCCCC1C(=O)OCC1CC=CCC1
Mol. weight [g/mol]:	392.57

## Physical Properties

Property code	Value	Unit	Source
gf	-245.49	kJ/mol	Joback Method
hf	-882.21	kJ/mol	Joback Method
hfus	49.45	kJ/mol	Joback Method
hvap	88.17	kJ/mol	Joback Method
log10ws	-6.51		Crippen Method
logp	5.986		Crippen Method
mvol	337.880	ml/mol	McGowan Method
pc	1098.62	kPa	Joback Method
rinpol	2817.00		NIST Webbook
rinpol	2817.00		NIST Webbook
tb	934.69	K	Joback Method
tc	1150.40	K	Joback Method
tf	515.84	K	Joback Method
vc	1.278	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1185.27	J/molxK	934.69	Joback Method
cpg	1204.06	J/molxK	970.64	Joback Method
cpg	1221.04	J/molxK	1006.59	Joback Method
cpg	1236.23	J/molxK	1042.55	Joback Method
cpg	1249.69	J/molxK	1078.50	Joback Method
cpg	1261.45	J/molxK	1114.45	Joback Method
cpg	1271.55	J/molxK	1150.40	Joback Method
dvisc	0.0007306	Paxs	515.84	Joback Method

dvisc	0.0003478	Paxs	585.65	Joback Method
dvisc	0.0001939	Paxs	655.46	Joback Method
dvisc	0.0001210	Paxs	725.26	Joback Method
dvisc	0.0000820	Paxs	795.07	Joback Method
dvisc	0.0000592	Paxs	864.88	Joback Method
dvisc	0.0000449	Paxs	934.69	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339872&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339872&amp;Units=SI</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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